NWS Form E-5 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC	HYDROLOGIC SERVICE AREA: Pocatello, Idaho			
ADMINISTRATION NATIONAL WEATHER SERVICE MONTHLY REPORT OF HYDROLOGIC CONDITIONS	REPORT FOR: MONTH: September YEAR: 2012			
TO: Hydrologic Operations Division, W/OH2 National Weather Service National Oceanic and Atmospheric Administration Silver Spring, Maryland 20910	SIGNATURE Corey Loveland Service Hydrologist			
	DATE: October 9, 2012			

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (NWS Instruction 10-924).



An X in this box indicates that no flooding has occurred for the month within this hydrologic service area.

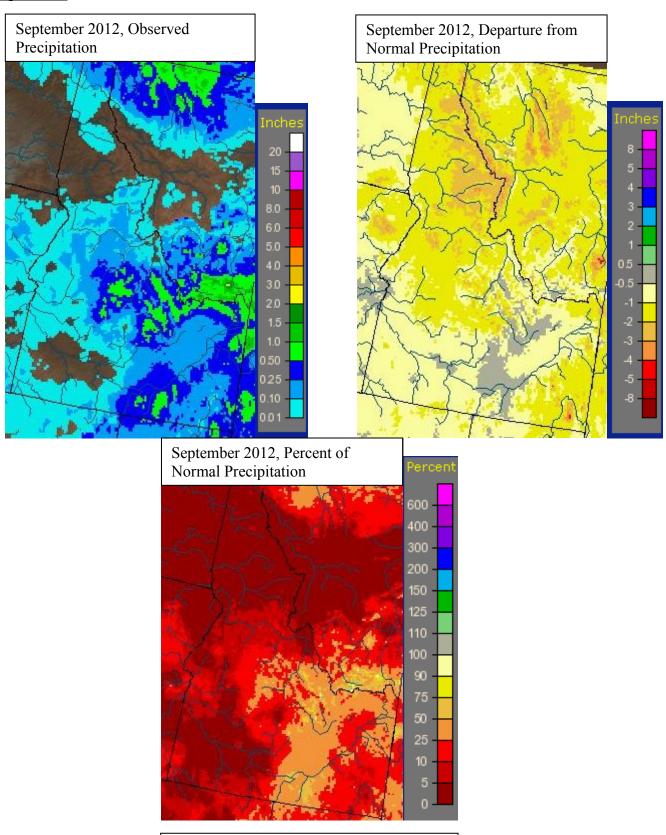
Overview

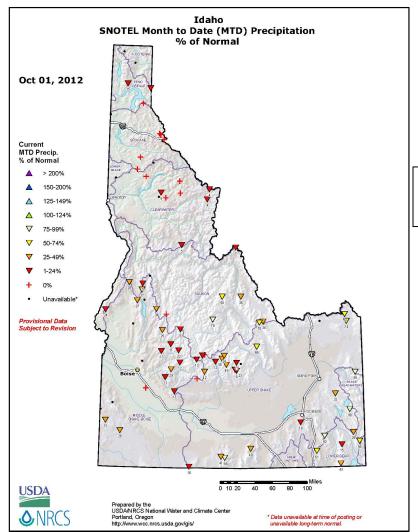
September continued the trend of being warmer and drier than normal with continued dry soil and vegetative conditions throughout the Hydrologic Service Area. The highest rainfall totals ranged from about 0.50 to 1.5 inches near the continental divide, central mountains, Bear Lake and the mountains near Oakley. For Climatic Division 10 (southeastern Idaho) the total areal precipitation was 0.43" for September which ties last year's September total, although in 2010 the total was less, being at 0.35". In the year of 1999, it was an analog dry month (September) as well at 0.48" of total precipitation. Of the data available for the month, the highest 24-hour rainfall total was 0.65 inch on the 1st day of the month in Oakley (but received a total of 0.65 inches in the month).

Again this past month, reservoir storage levels dropped (not as much as the changes in the month of August, but still significant). Lake Walcott fell the most by dropping 47% of capacity. During September, approximately 300,000 acre-feet of combined storage in the upper Snake River basin was lost. Overall, the upper Snake River basin has also decreased 7% in reservoir storage capacity (32% to 25%) through the past month. Therefore, reservoir storage across the HSA continues to fall as the summer ends and operator gear up for winter storage. Monthly average streamflow has also continued to decrease significantly; as would be expected during late summer. USGS has added record low flow graphics to their webpage-see below.

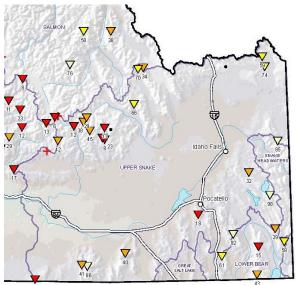
Drought conditions and fires continue to be the issues here in the HSA. Although the temperatures have decreased significantly since the August highs-of-the year, the one-month outlook shows a continuation of the about 40 percent chance of above normal temperatures. The precipitation outlook continues to indicate an equal chance of normal conditions. With the decreased temperatures and some rainfall, we have finally seen relief for the fires. In fact, the past couple of days, the Forest Service has inquired about favorable weather conditions to initiate prescribed burning in some areas in eastern Idaho. The current Fire Potential Outlook shows the reduced conditions for fire hazard as well and the current U.S. Drought Monitor has essentially kept the drought conditions (percent areas) the same as they were last month. The state (IDWR and Governor) have not announced any additional emergency drought declarations this past month, (also see note below). Currently, there are two fires burning within the HSA, the Mustang Complex (considered a major fire) and the Rocky Canyon fire, please see details below.

Precipitation:

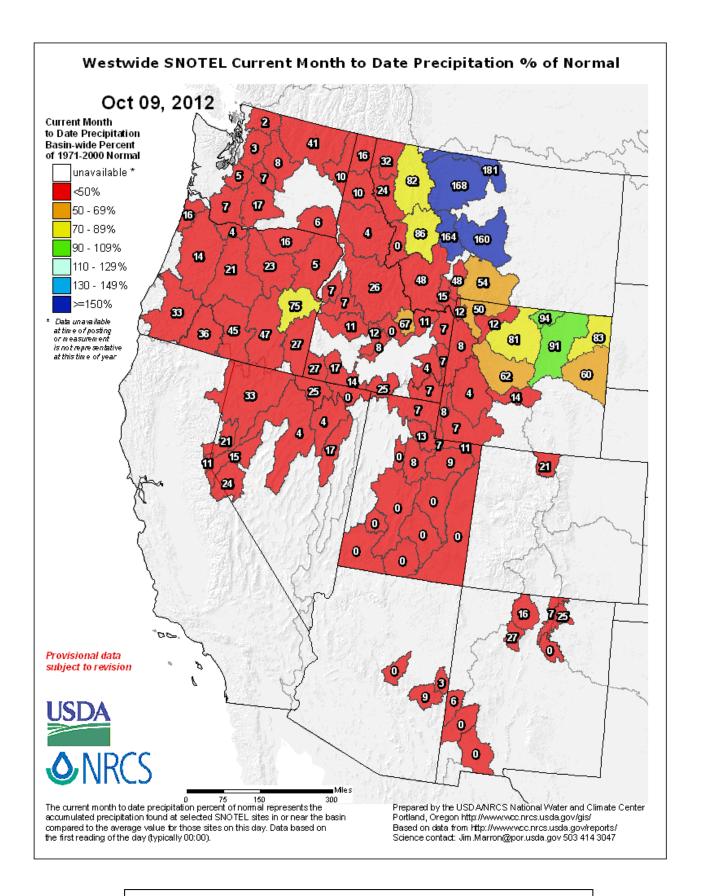




SNOTEL MTD % of Normal Precipitation for end of September 2012 (image below is cropped from left image)



 $ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/1stmonth/id/prec/id_mtdprecpctnormal_Oct.pdf$



http://www.wcc.nrcs.usda.gov/gis/images/west mtdprecpctnormal update.png

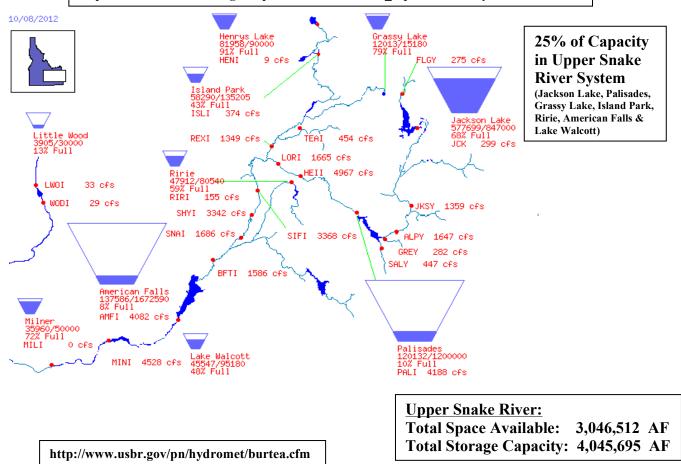
Reservoirs:

Reservoir	% Capacity Aug 31 ¹	% Capacity Sep 30 ²	Percent Change	% of Average ²	% of Last Year ²
Henry's Lake	91	91	0	108	97
Island Park	44	43	-1	84	50
Palisades	38	25	-13	37	28
Ririe	80	63	-17	116	84
Blackfoot	63	NR		NR	NR
American Falls	14	9	-5	27	19
Bear Lake	66	62	-4	93	76
Magic	47	28	-19	89	56
Little Wood	22	13	-9	61	32
Mackay	48	36	-12	206	53
Oakley	24	18	-6	66	49
Lake Walcott	95^{3}	48 ⁴	-47	n/a	n/a
Milner	72^{3}	72 ⁴	0	n/a	n/a

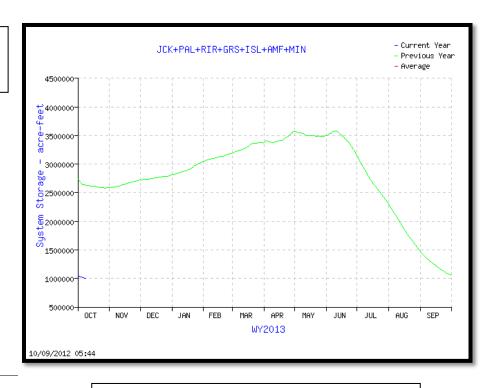
Source: (1) NRCS August 31, 2012; (2) NRCS September 30, 2012.

(3) US Bureau of Reclamation (BOR) September 10, 2012 (4) BOR October 8, 2012

http://www.wcc.nrcs.usda.gov/ftpref/data/water/basin reports/idaho/wy2012/bareid9.txt

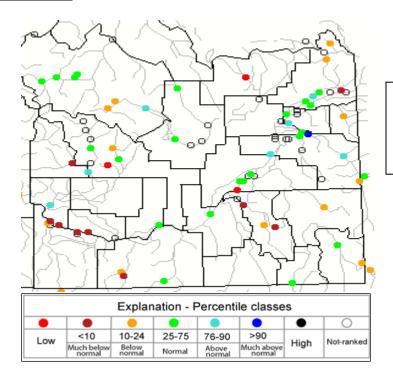


Graph of Upper Snake River Current Total System Reservoir Storage



http://www.usbr.gov/pn-bin/graphwy2.pl?snasys_af

Streamflow:

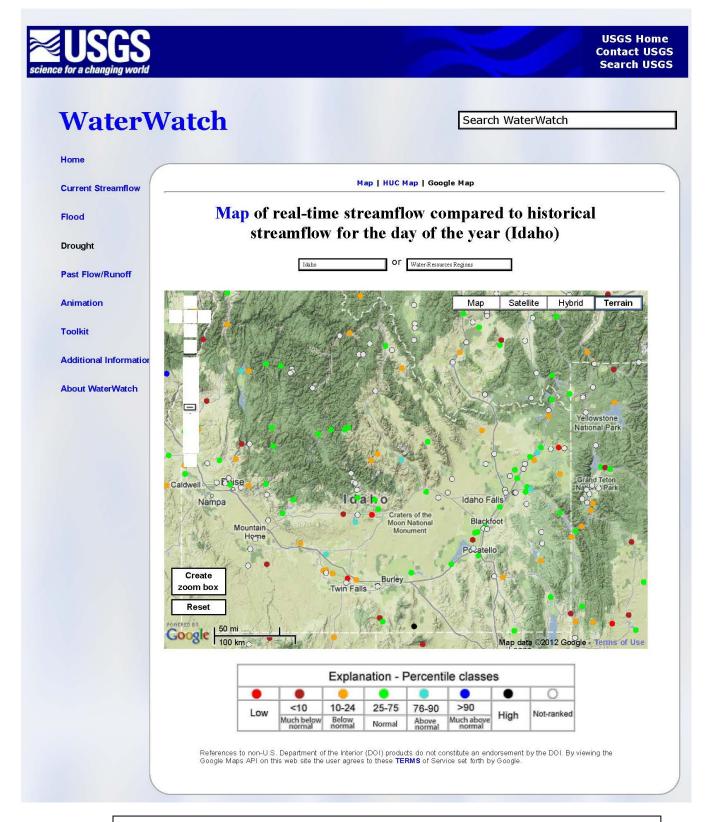


Monthly average streamflow compared to historical average streamflow for September 2012.

■USGS

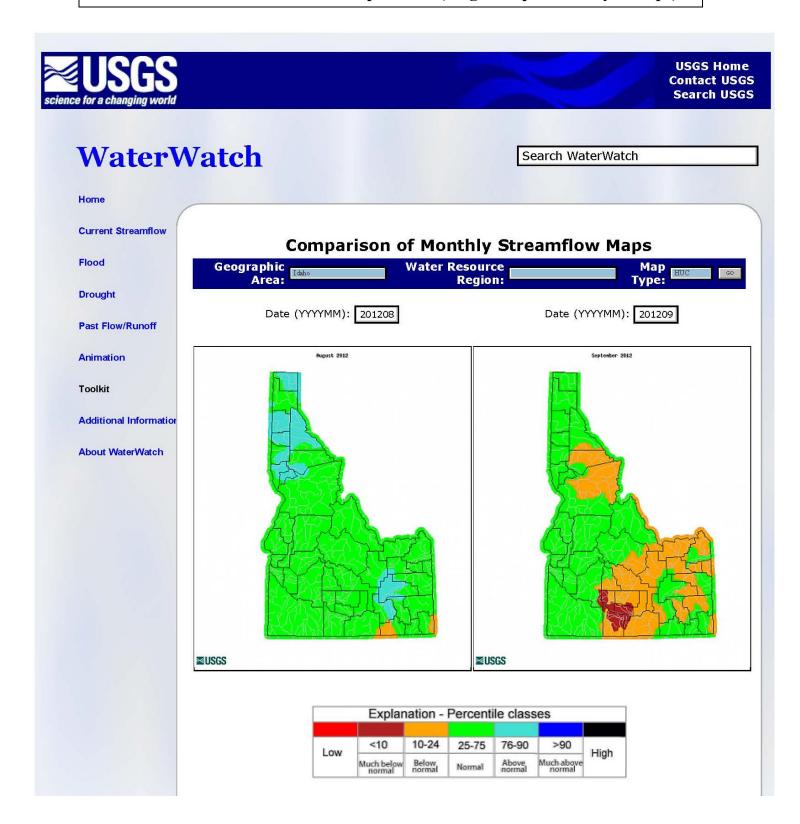
http://waterwatch.usgs.gov/?m=mv01d&r=id&w=map

Monthly Below Normal Streamflow:



http://waterwatch.usgs.gov/index.php?id=mv01d_dry&sid=w__gmap|m__mvd_dry&r=id

Past Few Months Streamflow Comparisons (Aug to Sept and July to Sept):





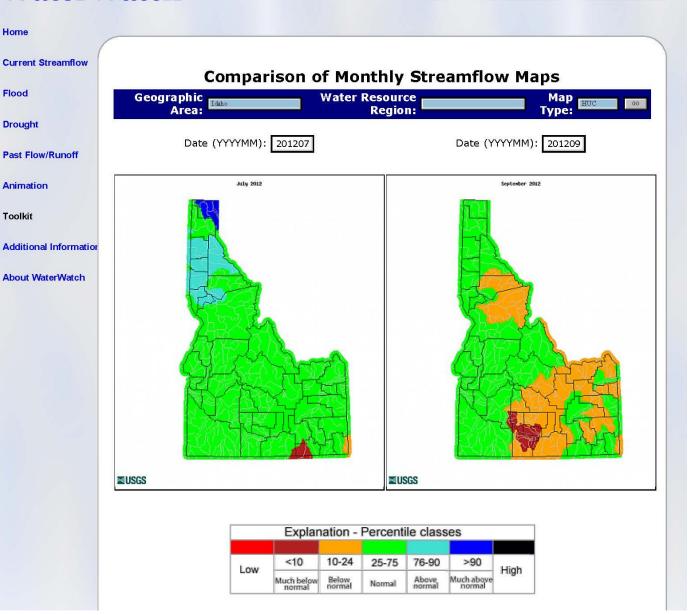


Home

Flood

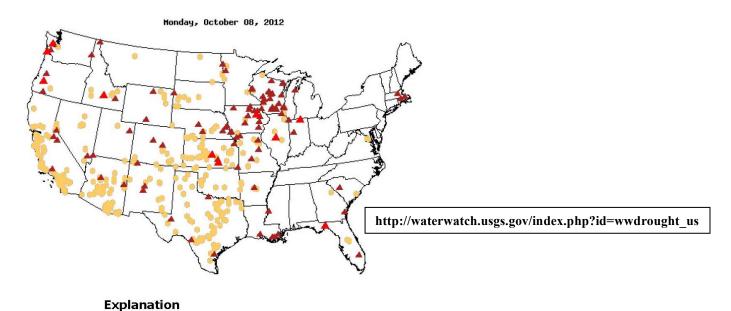
WaterWatch

Search WaterWatch



http://waterwatch.usgs.gov/index.php

Map of Record Low 7-day Streamflow



▲ Record low flow with more than 30 years data ▲ Record low flow with less than 30 years data

Zero flow sites

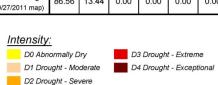
Drought Information:

U.S. Drought Monitor

October 2, 2012 Valid 7 a.m. EST

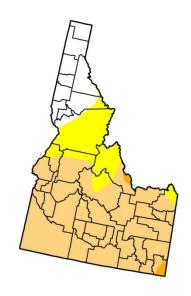
Idaho

	Drought Conditions (Percent Area)						
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	
Current	15.61	84.39	66.47	0.95	0.00	0.00	
Last Week (09/25/2012 map)	15.61	84.39	66.47	1.27	0.00	0.00	
3 Months Ago (07/03/2012 map)	52.57	47.43	1.05	0.18	0.00	0.00	
Start of Calendar Year (12/27/2011 map)	48.90	51.10	0.00	0.00	0.00	0.00	
Start of Water Year (09/25/2012 map)	15.61	84.39	66.47	1.27	0.00	0.00	
One Year Ago (09/27/2011 map)	86.56	13.44	0.00	0.00	0.00	0.00	



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu





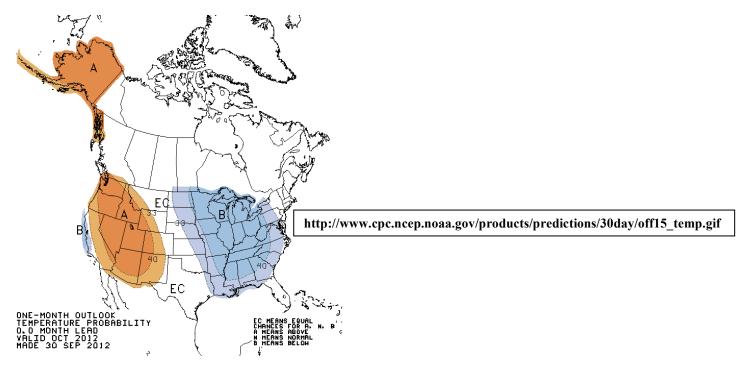


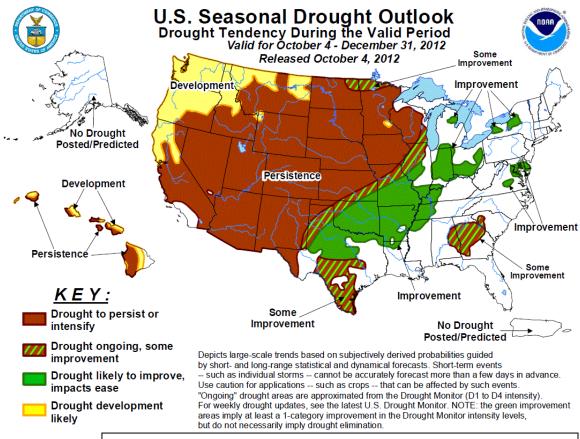




Released Thursday, October 4, 2012
Anthony Artusa, NOAA/NWS/NCEP/CPC

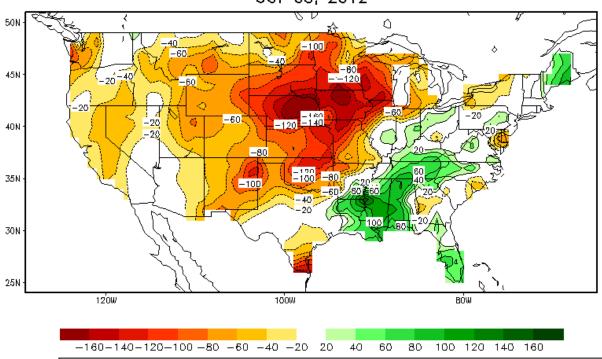
No additional Idaho Department of Water Resources Drought Emergency Declarations for Counties since last month's E-5 report



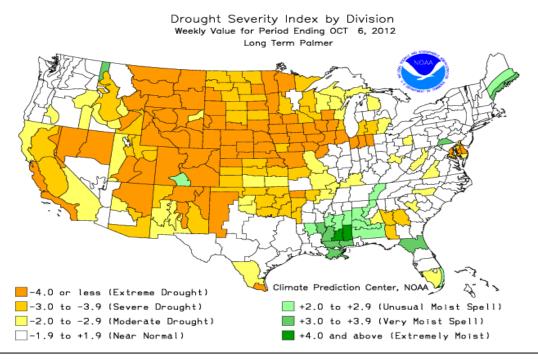


http://www.cpc.ncep.noaa.gov/products/expert assessment/season drought.gif

Calculated Soil Moisture Anomaly (mm) OCT 08, 2012

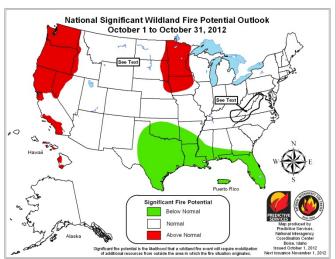


http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml#

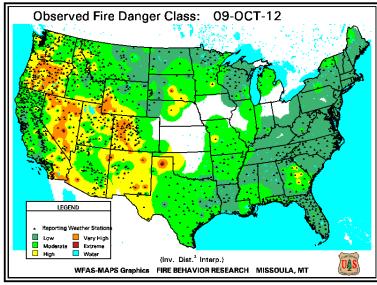


http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif

Fire Information:



 $http://www.predictiveservices.nifc.gov/outlooks/monthly_outlook.jpg$



http://www.wfas.net/images/firedanger/fd_class.png



Satellite Smoke imagery for 10/6/2012 (afternoon) from Aqua MODIS, Source: Idaho wildfire update report 10/9/2012

Current Fires in HSA as of 10/9/12:

Mustang Complex (major fire), Salmon-Challis NF (6 fires; increase of 2 since last report). Salmon-Challis NF. Three miles northwest of North Fork, ID. Timber, brush, and grass; creeping and smoldering. Currently at 340,659 acres and 59% contained (based on Inciweb).

Rocky Canyon, Fort Hall Agency, BIA. Sixteen miles northeast of Inkom, ID. Brush; creeping and smoldering. 871 acres and 60% contained. Estimated to be contained today.

Information by the numbers:

Year-to-Date fire totals in the Eastern Great Basin is 2,355 total fires with 2,032,091 acres burned.

The total (nationwide) number of fires year-to-date is 49,682 and the number of acres burned nationwide is 8,862,671.

The nationwide ten year average number of fires is 63,933 and the ten year nationwide average number of acres burned is 6,699,314. So, this year we have had less number of fires, but more of an impact spacially for the ten year average.

Source: http://www.nifc.gov/nicc/sitreprt.pdf

cc:

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